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```

MM      MM      AAAAAA      KK      KK      LL      000000      GGGGGGGG
MM      MM      AAAAAA      KK      KK      LL      000000      GGGGGGGG
MMM     MMM     AA      AA      KK      KK      LL      00      00      GG
MMM     MMM     AA      AA      KK      KK      LL      00      00      GG
MM      MM      AA      AA      KK      KK      LL      00      00      GG
MM      MM      AA      AA      KK      KK      LL      00      00      GG
MM      MM      AA      AA      KKKKKK      KK      LL      00      00      GG
MM      MM      AA      AA      KKKKKK      KK      LL      00      00      GG
MM      MM      AAAAAAAAAA      KK      KK      LL      00      00      GG      GGGGGG
MM      MM      AAAAAAAAAA      KK      KK      LL      00      00      GG      GGGGGG
MM      MM      AA      AA      KK      KK      LL      00      00      GG      GG
MM      MM      AA      AA      KK      KK      LL      00      00      GG      GG
MM      MM      AA      AA      KK      KK      LLLLLLLLLL      000000      GGGGGG      ....
MM      MM      AA      AA      KK      KK      LLLLLLLLLL      000000      GGGGGG      ....

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LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS

```

```
0001 0 MODULE MAKLOG (  
0002 0  
0003 0 LANGUAGE (BLISS32),  
0004 0 IDENT = 'V04-000'  
0005 0 ) =  
0006 1 BEGIN  
0007 1  
0008 1 *****  
0009 1 *  
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0027 1 *  
0028 1 *****  
0029 1 *****  
0030 1  
0031 1 ++  
0032 1  
0033 1 FACILITY: MOUNT Utility Structure Levels 1 & 2  
0034 1  
0035 1 ABSTRACT:  
0036 1  
0037 1 These routines allocate and hook up the logical name and mounted  
0038 1 volume list entries.  
0039 1  
0040 1 ENVIRONMENT:  
0041 1  
0042 1 STARLET operating system, including privileged system services  
0043 1 and internal exec routines.  
0044 1  
0045 1 --  
0046 1  
0047 1  
0048 1 AUTHOR: Andrew C. Goldstein, CREATION DATE: 20-Oct-1977 19:30  
0049 1  
0050 1 MODIFIED BY:  
0051 1  
0052 1 V03-018 HH0041 Hai Huang 24-Jul-1984  
0053 1 Remove REQUIRE 'LIBD$:[VMSLIB.OBJ]MOUNTMSG.B32'.  
0054 1  
0055 1 V03-017 HH0040 Hai Huang 20-Jul-1984  
0056 1 Cal EX$CRE_GTABLE to create the logical name table if  
0057 1 it doesn't already exist.
```


58	0058	1	V03-016	HH0038	Hai Huang	12-Jul-1984
59	0059	1			Correct MOUNT_FLAGS structure attribute.	
60	0060	1	V03-015	MHB0153	Mark Bramhall	27-Apr-1984
61	0061	1			Correct NSASB_ARG_FLAG setting for multiple audits enabled.	
62	0062	1	V03-014	ACG0423	Andrew C. Goldstein,	24-Apr-1984 11:06
63	0063	1			Make disk logical names in MOUNT exec mode to make them	
64	0064	1			available to privileged programs.	
65	0065	1	V03-013	HH0012	Hai Huang	09-Apr-1984
66	0066	1			Get the device owner UIC and the volume protection	
67	0067	1			from the ORB instead of the UCB.	
68	0068	1	V03-012	HH0009	Hai Huang	27-Mar-1984
69	0069	1			Add security auditing support.	
70	0070	1	V03-011	HH0007	Hai Huang	21-Mar-1984
71	0071	1			Add cluster-wide group-volume support, i.e., create the	
72	0072	1			group logical name in the group table of the current	
73	0073	1			process.	
74	0074	1	V03-010	HH0002	Hai Huang	23-Jan-1984
75	0075	1			Add job-wide mount support.	
76	0076	1	V03-009	ROW0254	Ralph O. Weber	12-NOV-1983
77	0077	1			Cause logical names defined herein to be of the GETDVI	
78	0078	1			FULLDEVNAM form. This will result in allocation class names	
79	0079	1			being used for the equivalence name strings of logical names	
80	0080	1			defined by mount. Therefore, the mounted volume logical name	
81	0081	1			equivalence strings can be held over time and passed around	
82	0082	1			the VAXcluster without becoming stale.	
83	0083	1	V03-008	CDS0001	Christian D. Saether	2-Aug-1983
84	0084	1			Remove references to RVX structure (obsolete).	
85	0085	1	V03-007	DMW4057	DMWalp	23-Jun-1983
86	0086	1			Change \$xxLNM value parameters to be by reference	
87	0087	1	V03-006	DMW4050	DMWalp	15-Jun-1983
88	0088	1			Corrections to DMW4033, added LNMSM_TERMINAL	
89	0089	1			Change over to LNMS_LNMB_ADDR	
90	0090	1	V03-005	ADE9004	A.ELDRIDGE	29-May-1983
91	0091	1			Fixed name binding to logical name tables.	
92	0092	1	V03-004	DMW4033	DMWalp	26-May-1983
93	0093	1			Intergrate new logical name structures.	
94	0094	1	V03-003	STJ50311	Steven T. Jeffreys,	10-Feb-1982
95	0095	1			- Make all uses of PHYS_NAME indexed by DEVICE_INDEX,	
96	0096	1			but always use PHYS_NAME[0] for tape mounts.	
97	0097	1			- Set the access mode of the logical names(s) created	
98	0098	1			to be the MIN (PSLSC_SUPER,.CALLERS_ACMOD). (SPR 45688)	
99	0099	1	V03-002	DMW4010	DMWalp	19-Nov-1982
100	0100	1				
101	0101	1				
102	0102	1				
103	0103	1				
104	0104	1				
105	0105	1				
106	0106	1				
107	0107	1				
108	0108	1				
109	0109	1				
110	0110	1				
111	0111	1				
112	0112	1				
113	0113	1				
114	0114	1				

```

: 115      0115 1  Rework logical name block to MTL ( or UCB ) links.
: 116      0116 1
: 117      0117 1  V03-001 STJ0248      Steven T. Jeffreys,      31-Mar-1982
: 118      0118 1  - Allow for ASCII "A" characters in a volume name.
: 119      0119 1
: 120      0120 1  V02-006 STJ0205      Steven T. Jeffreys,      07-Feb-1982
: 121      0121 1  Create a local copy of the user specified logical name
: 122      0122 1  to prevent it from being stepped on.
: 123      0123 1
: 124      0124 1  V02-005 LMP0006      L. Mark Pilant,      29-Dec-1981 12:00
: 125      0125 1  Interlock the mount list to avoid potential disasters.
: 126      0126 1
: 127      0127 1  V02-004 ACG0219      Andrew C. Goldstein,    23-Oct-1981 10:48
: 128      0128 1  Add concealed device support in MOUNT
: 129      0129 1
: 130      0130 1  V02-003 STJ0122      Steven T. Jeffreys,    10-Sep-1981
: 131      0131 1  Fixed references to the logical name descriptor to use
: 132      0132 1  the symbolic offsets. This ensures that references to
: 133      0133 1  the logical name length will be WORD context.
: 134      0134 1
: 135      0135 1  V02-002 ACG0167      Andrew C. Goldstein,    18-Apr-1980 13:38
: 136      0136 1  Previous revision history moved to MOUNT.REV
: 137      0137 1  **
: 138      0138 1
: 139      0139 1
: 140      0140 1  LIBRARY 'SYSS$LIBRARY:LIB.L32';
: 141      0141 1  REQUIRE 'SRC$:MOUDEF.B32';
: 142      0673 1
: 143      0674 1
: 144      0675 1  LITERAL
: 145      0676 1  PHYS_LENGTH      = 15;      ! longest allowable physical name
: 146      0677 1
: 147      0678 1  FORWARD ROUTINE
: 148      0679 1  LABEL_LENGTH;      ! return the length of a volume label
```



```
150 0680 1 GLOBAL ROUTINE ALLOC_LOGNAME (MODE) : NOVALUE =
151 0681 1
152 0682 1 ++
153 0683 1
154 0684 1 FUNCTIONAL DESCRIPTION:
155 0685 1
156 0686 1 This routine allocates the mounted volume list entry from the
157 0687 1 appropriate storage pools. It used to allocate logical name block
158 0688 1 also ( thus the name ).
159 0689 1
160 0690 1
161 0691 1 CALLING SEQUENCE:
162 0692 1 ALLOC_LOGNAME ( )
163 0693 1
164 0694 1 INPUT PARAMETERS:
165 0695 1 MODE: 0 to use user-specified logical name
166 0696 1 1 to force use of volume name
167 0697 1
168 0698 1 IMPLICIT INPUTS:
169 0699 1 MOUNT parser database
170 0700 1
171 0701 1 OUTPUT PARAMETERS:
172 0702 1 NONE
173 0703 1
174 0704 1 IMPLICIT OUTPUTS:
175 0705 1 MTL_ENTRY: address of MTL block
176 0706 1
177 0707 1 ROUTINE VALUE:
178 0708 1 NONE
179 0709 1
180 0710 1 SIDE EFFECTS:
181 0711 1 NONE
182 0712 1
183 0713 1 --
184 0714 1
185 0715 2 BEGIN
186 0716 2
187 0717 2 EXTERNAL
188 0718 2 MOUNT_OPTIONS : BITVECTOR, ! command options
189 0719 2 MTL_ENTRY : REF BBLOCK; ! MTL block
190 0720 2
191 0721 2 EXTERNAL ROUTINE
192 0722 2 ALLOCATE_MEM; ! allocate dynamic memory
193 0723 2
194 0724 2
195 0725 2 ! Now allocate the mounted volume list entry.
196 0726 2 ! Note: to support job-wide mount, a mount list entry
197 0727 2 ! is always allocated from paged pool.
198 0728 2
199 0729 2 MTL_ENTRY = ALLOCATE_MEM (MTL$C_LENGTH, 1);
200 0730 2
201 0731 2 MTL_ENTRY[MTL$B_TYPE] = DYN$C_MTL;
202 0732 2
203 0733 1 END; ! end of routine ALLOC_LOGNAME
```

.TITLE MAKLOG

.IDENT \V04-000\

.EXTRN MOUNT_OPTIONS, MTL_ENTRY
.EXTRN ALLOCATE_MEM

.PSECT \$CODE\$,NOWRT,2

.ENTRY	ALLOC_LOGNAME, Save nothing	:	0680
PUSHL	#1	:	0729
PUSHL	#24	:	
CALLS	#2, ALLOCATE_MEM	:	
MOVL	R0, MTL_ENTRY	:	
MOVB	#25, 10(R0)	:	0731
RET		:	0733

			0000	00000
		01	DD	00002
		18	DD	00004
		02	FB	00006
0000G	CF	50	DD	00008
0000G	CF	19	90	00010
0A	A0		04	00014

; Routine Size: 21 bytes, Routine Base: \$CODE\$ + 0000

```
205 0734 1 GLOBAL ROUTINE ENTER_LOGNAME (UCB, VCB) : NOVALUE =
206 0735 1
207 0736 1 ++
208 0737 1
209 0738 1 FUNCTIONAL DESCRIPTION:
210 0739 1
211 0740 1 This routine completes the logical name and mounted volume list
212 0741 1 entries. It builds MTL entry and creates the logical name
213 0742 1 and hooks up the MTL entry in the appropriate list.
214 0743 1
215 0744 1
216 0745 1 CALLING SEQUENCE:
217 0746 1 ENTER_LOGNAME (ARG1, ARG2)
218 0747 1
219 0748 1 INPUT PARAMETERS:
220 0749 1 ARG1: UCB of volume being mounted
221 0750 1 ARG2: VCB of volume being mounted
222 0751 1
223 0752 1 IMPLICIT INPUTS:
224 0753 1 MOUNT parser data base
225 0754 1 MTL_ENTRY: address of MTL block
226 0755 1 SMTL_ENTRY: address of MTL block for volume set
227 0756 1
228 0757 1 OUTPUT PARAMETERS:
229 0758 1 NONE
230 0759 1
231 0760 1 IMPLICIT OUTPUTS:
232 0761 1 NONE
233 0762 1
234 0763 1 ROUTINE VALUE:
235 0764 1 NONE
236 0765 1
237 0766 1 SIDE EFFECTS:
238 0767 1 logical name and MTL entry entered
239 0768 1
240 0769 1 --
241 0770 1
242 0771 2 BEGIN
243 0772 2
244 0773 2 MAP
245 0774 2 UCB : REF BBLOCK, ! UCB being mounted
246 0775 2 VCB : REF BBLOCK; ! VCB being mounted
247 0776 2
248 0777 2 BUILTIN
249 0778 2 INSQUE,
250 0779 2 CALLG;
251 0780 2
252 0781 2 BIND
253 0782 2 TAPE_PREFIX = UPLIT BYTE ( 'TAPE$' );
254 0783 2 DISK_PREFIX = UPLIT BYTE ( 'DISK$' );
255 0784 2 SYSTEM_TABLE = %ASCID 'LNM$SYSTEM';
256 0785 2 JOB_TABLE = %ASCID 'LNM$JOB';
257 0786 2
258 0787 2 LOCAL
259 0788 2 ACMODE, ! access mode
260 0789 2 INDEX, ! local index into PHYS_NAME vector
261 0790 2 P, ! string pointer
```



```
262 0791 2 C, string count
263 0792 2 RVT : REF BBLOCK, pointer to RVT
264 0793 2 NAME_DESC : BBLOCK [DSC$K_S_BLN],
265 0794 2 internal logical name descriptor
266 0795 2 LOG_BUFFER : VECTOR [LN$SC_NAMELENGTH, BYTE],
267 0796 2 logical name buffer
268 0797 2 MOUNT_LIST : REF BBLOCK, address of mount list tail
269 0798 2 ITEM_LIST : VECTOR [(6*3)+1, LONG],
270 0799 2 $CRELNM item list, 6 items each
271 0800 2 3 longwords in length plus 1
272 0801 2 for the terminator longword
273 0802 2 PHYSNAM_DESC : BBLOCK [ DSC$K_S_BLN ],
274 0803 2 GETDVI descriptor for physical name
275 0804 2 FULLNAM : VECTOR [ PHYS_LENGTH + 2, BYTE ],
276 0805 2 Place to store the FULLDEVNAM string
277 0806 2 DVI_ITEM : VECTOR [ 3+1, LONG ],
278 0807 2 GETDVI item list
279 0808 2 JIB : REF BBLOCK, pointer to Job Info Block
280 0809 2 TABLE_NAME : VECTOR [16, BYTE]
281 0810 2 INITIAL (%ASCII 'LN$GROUP_000000'),
282 0811 2 Group table name
283 0812 2 GROUP_TABLE : VECTOR [2, LONG]
284 0813 2 INITIAL (16, TABLE_NAME),
285 0814 2 Group table name descriptor
286 0815 2 ASC_GROUP : VECTOR [8, BYTE]
287 0816 2 INITIAL (%ASCII '00000000'),
288 0817 2 Group in ASCII (6 bytes used)
289 0818 2 ASC_GROUP_DESC : VECTOR [2, LONG]
290 0819 2 INITIAL (6, ASC_GROUP);
291 0820 2 ASCII group descriptor
292 0821 2
293 0822 2 EXTERNAL
294 0823 2 MOUNT_OPTIONS : BITVECTOR, command options
295 0824 2 MOUNT_FLAGS : VECTOR, mount flags
296 0825 2 CALLERS_ACMOD : LONG, Caller's (of $MOUNT) access mode
297 0826 2 DEVICE_CHAR : BBLOCK, device characteristics
298 0827 2 DEVICE_COUNT, number of devices specified
299 0828 2 LOG_NAME : VECTOR, logical name descriptor
300 0829 2 DEVICE_INDEX : LONG, index into PHYS_NAME vector
301 0830 2 PHYS_NAME : VECTOR, physical device name descriptor
302 0831 2 MTL_ENTRY : REF BBLOCK, MTL block
303 0832 2 SMT_ENTRY : REF BBLOCK, MTL block for volume set
304 0833 2 SCH$GL_CURPCB : REF BBLOCK ADDRESSING_MODE (GENERAL),
305 0834 2 address of our PCB
306 0835 2 IOC$GQ_MOUNTLIST : VECTOR ADDRESSING_MODE (GENERAL),
307 0836 2 system mounted volume list head
308 0837 2 EXESGL_FLAGS : BITVECTOR ADDRESSING_MODE (GENERAL),
309 0838 2 exec flags longword
310 0839 2 NSASGR_ALARMVEC : BBLOCK ADDRESSING_MODE (GENERAL),
311 0840 2 alarm enable bit vector
312 0841 2 NSASGR_JOURNVEC : BBLOCK ADDRESSING_MODE (GENERAL);
313 0842 2 journal enable bit vector
314 0843 2
315 0844 2 EXTERNAL LITERAL
316 0845 2 EXESV_CONCEALED : UNSIGNED (6); ! concealed device flag
317 0846 2
318 0847 2
```

```
319 0848 2 LINKAGE
320 0849      ARGST_IMGNAM = JSB (REGISTER = 2;) :
321 0850      NOPRESERVE (0,1)
322 0851      NOTUSED (3,4,5,6,7,8,9,10,11),
323 0852
324 0853      EXE_CRE_GTABLE = JSB (REGISTER = 11) :
325 0854      NOPRESERVE (0,1,2,3,4,5,8);
326 0855
327 0856 EXTERNAL ROUTINE
328 0857      LOCK_IODB,          ! lock the I/O data base
329 0858      UNLOCK_IODB,        ! unlock the I/O data base
330 0859      NSASEVENT_AUDIT : ADDRESSING_MODE (GENERAL),
331 0860      NSASARGST_IMGNAM : ARGST_IMGNAM ADDRESSING_MODE (GENERAL),
332 0861      NSASARGST_IMGNAM : ARGST_IMGNAM ADDRESSING_MODE (GENERAL),
333 0862      EXESCRE_GTABLE : EXE_CRE_GTABLE ADDRESSING_MODE (GENERAL);
334 0863      ! insert IMGNAM into ARGST
335 0864      ! create group logical name table
336 0865
337 0866
338 0867 ! First build the volume logical name table entry.
339 0868 ! Use logical name from command unless:
340 0869 !   - There is no logical name
341 0870 !   - It is a disk volume set
342 0871 !   - More than one device is being mounted, and they are not magtapes.
343 0872
344 0873 ! Get the logical name; either from the command or from the volume label.
345 0874
346 0875
347 0876 ! Copy the user-specified logical name to local storage.
348 0877
349 0878
350 0879 CH$MOVE (.LOG_NAME[0], .LOG_NAME[1], LOG_BUFFER);
351 0880 NAME_DESC [DSC$W_LENGTH] = .LOG_NAME [0];
352 0881 NAME_DESC [DSC$B_DTYPE] = 0;
353 0882 NAME_DESC [DSC$B_CLASS] = 0;
354 0883 NAME_DESC [DSC$A_POINTER] = LOG_BUFFER;
355 0884
356 0885
357 0886 ! Calculate the access mode for the logical name creation
358 0887
359 0888
360 0889 ACMODE = MIN ((IF .MOUNT_OPTIONS[OPT_SYSTEM]
361 0890      THEN PSL$C_EXEC
362 0891      ELSE PSL$C_SUPER), .CALLERS_ACMOD);
363 0892
364 0893 IF NOT .MOUNT_OPTIONS[OPT_LOG_NAME]
365 0894 OR .SMTL_ENTRY NEQ 0
366 0895 OR (.DEVICE_COUNT NEQ 1 AND (NOT .DEVICE_CHAR[DEV$V_SQD]))
367 0896 THEN
368 0897     BEGIN
369 0898     IF .DEVICE_CHAR[DEV$V_SQD]
370 0899     THEN P = TAPE_PREFIX
371 0900     ELSE P = DISK_PREFIX;
372 0901
373 0902     C = LABEL_LENGTH (VCB$S_VOLNAME, VCB[VCB$T_VOLNAME]);
374 0903     NAME_DESC[DSC$W_LENGTH] = .C + 5;
375 0904     NAME_DESC[DSC$A_POINTER] = LOG_BUFFER;
```



```
0905 3 CHSCOPY (5, .P, .C, VCB[VCB$T_VOLNAME], 0, .C+5, LOG_BUFFER);
0906 3 END;
0907 3
0908 3 ! Now create logical name. The physical device string is the equivalence
0909 3 string. If a tape mount, use the physical name of the first volume,
0910 3 otherwise use the physical name of the current volume.
0911 3
0912 3
0913 3 INDEX = .DEVICE INDEX;
0914 3 IF .BBLOCK [UCB[UCB$S_DEVCHAR], DEV$V_SQD]
0915 3 THEN
0916 3     INDEX = 0;
0917 3
0918 3 ! Store the location of the LNM block in the MTL
0919 3
0920 3 ITEM_LIST [ 0 ] = ( LNMS_LNMB_ADDR^16 OR 4 );
0921 3 ITEM_LIST [ 1 ] = MTL_ENTRY[MTL$S_LOGNAME]; ! CAUTION USED BY ITEM_LIST [ 7 ]
0922 3 ITEM_LIST [ 2 ] = 0;
0923 3
0924 3 ! Store the location of the MTL in the LNM BLOCK.
0925 3 ! This causes the logical name deletion logic to clear the MTL's logical name
0926 3 ! pointer if the logical name is deleted, just as it does when a mailbox
0927 3 ! logical name is deleted.
0928 3
0929 3 ITEM_LIST [ 3 ] = ( LNMS_INDEX^16 OR 4 );
0930 3 ITEM_LIST [ 4 ] = UPLIT ( LNMX$C_BACKPTR );
0931 3 ITEM_LIST [ 5 ] = 0;
0932 3 ITEM_LIST [ 6 ] = ( LNMS_STRING^16 OR 4 );
0933 3 ITEM_LIST [ 7 ] = ITEM_LIST [ 1 ];
0934 3 ITEM_LIST [ 8 ] = 0;
0935 3
0936 3 ! Define equivalence string
0937 3
0938 3 ITEM_LIST [ 9 ] = ( LNMS_INDEX^16 OR 4 );
0939 3 ITEM_LIST [ 10 ] = UPLIT ( 0 );
0940 3 ITEM_LIST [ 11 ] = 0;
0941 3
0942 3 ITEM_LIST [ 12 ] = ( LNMS_ATTRIBUTES^16 OR 4 );
0943 3 ITEM_LIST [ 13 ] = ( IF .EXESGL_FLAGS[EXES$V_CONCEALED]
0944 3     THEN UPLIT ( LNMS$M_TERMINAL OR LNMS$M_CONCEALED )
0945 3     ELSE UPLIT ( LNMS$M_TERMINAL ) );
0946 3 ITEM_LIST [ 14 ] = 0;
0947 3
0948 3 ! Use GETDVI to obtain the most universal device name for this physical
0949 3 ! device, FULLDEVNAM, and pass that to CRELNM as the equivalence name
0950 3 ! string.
0951 3
0952 3 PHYSNAM_DESC [ DSC$W_LENGTH ] = .PHYS_NAME [ .INDEX*2 ] - 1;
0953 3 PHYSNAM_DESC [ DSC$A_POINTER ] = .PHYS_NAME [ .INDEX*2 + 1 ] + 1;
0954 3 PHYSNAM_DESC [ DSC$B_DTYPE ] = 0;
0955 3 PHYSNAM_DESC [ DSC$B_CLASS ] = 0;
0956 3
0957 3 DVI_ITEM [ 0 ] = ( DVI$ FULLDEVNAM^16 OR ( PHYS_LENGTH + 2 ) );
0958 3 DVI_ITEM [ 1 ] = FULLNAM;
0959 3 DVI_ITEM [ 2 ] = ITEM_LIST [ 15 ];
0960 3 DVI_ITEM [ 3 ] = 0;
0961 3 ITEM_LIST [ 15 ] = 0;
```



```
0962 $GETDVIW (
0963     devnam = PHYSNAM_DESC,
0964     itmlst = DVI_ITEM );
0965
0966 IF .FULLNAM [ 0 ] eq 'XC' _'
0967 THEN BEGIN
0968     ITEM_LIST [ 15 ] = ( LNMS_STRING*16 or ( .ITEM_LIST [ 15 ] - 1 ) );
0969     ITEM_LIST [ 16 ] = FULLNAM + 1;
0970 END
0971 ELSE BEGIN
0972     ITEM_LIST [ 15 ] = ( LNMS_STRING*16 or .ITEM_LIST [ 15 ] );
0973     ITEM_LIST [ 16 ] = FULLNAM;
0974 END;
0975
0976 ITEM_LIST [ 17 ] = 0;
0977
0978 ! End item list
0979
0980 ITEM_LIST [ 18 ] = 0;
0981
0982
0983 ! If the volume is to be mounted /group, then we have to create the group logical
0984 ! name in the group of the current process. To avoid the situation that the group
0985 ! table does not exist, we call the EXESCRE_GTABLE routine, which creates the group
0986 ! table if it doesn't already exist.
0987
0988 IF .MOUNT_OPTIONS [ OPT_GROUP ]
0989 THEN
0990 BEGIN
0991     SFAO ( %ASCID 'LNMSGROUP_!OW', ! Format LNMSGROUP_xxxxxx
0992           GROUP_TABLE,
0993           GROUP_TABLE,
0994           .(SCH$GL_CURPCB [PCBSL_UIC]) <16,16>); ! Convert our group number to octal
0995
0996     SFAO ( %ASCID '!OW', ! Format octal in ASCII
0997           ASC_GROUP_DESC,
0998           ASC_GROUP_DESC,
0999           .(SCH$GL_CURPCB [PCBSL_UIC]) <16,16>); ! Convert our group number to octal
1000
1001     EXESCRE_GTABLE (ASC_GROUP); ! Create the LNMSGROUP_xxxxxx table
1002
1003     END; ! exists
1004
1005
1006 $CRELNM
1007 ( ACMODE = ACMODE,
1008   TABNAM = (IF .MOUNT_OPTIONS [ OPT_SYSTEM ]
1009             THEN SYSTEM_TABLE
1010             ELSE
1011               IF .MOUNT_OPTIONS [ OPT_GROUP ]
1012               THEN GROUP_TABLE
1013               ELSE JOB_TABLE
1014             )
1015   LOGNAM = NAME_DESC,
1016   ITMLST = ITEM_LIST );
1017
1018
```

```
490 1019 2 ! Link the MTL entry into the list
491 1020
492 1021 MTL_ENTRY[MTL$$_UCB] = .UCB;
493 1022 LOCK_IODB (); ! lock the mount list
494 1023
495 1024 IF .MOUNT_OPTIONS[OPT_GROUP] OR .MOUNT_OPTIONS[OPT_SYSTEM]
496 1025 THEN MOUNT_LIST = IOC$GQ_MOUNTLIST[1]
497 1026 ELSE
498 1027 BEGIN
499 1028 JIB = .SCH$GL_CURPCB[PCB$$_JIB];
500 1029 MOUNT_LIST = JIB[JIB$$_MTL$$_MTL]; ! get the tail of the mount list
501 1030 END;
502 1031 INSQUE (.MTL_ENTRY, ..MOUNT_LIST);
503 1032
504 1033 UNLOCK_IODB (); ! unlock the mount list
505 1034
506 1035 ! Now build the volume set logical name if we are mounting volume 1 of a
507 1036 disk volume set.
508 1037
509 1038 IF .SMTL_ENTRY NEQ 0
510 1039 THEN
511 1040 BEGIN
512 1041
513 1042 ! Get the logical name; either from the command or from the volume label.
514 1043
515 1044
516 1045 ! Copy the user-specified logical name to local storage.
517 1046
518 1047 CH$MOVE (.LOG_NAME[0], .LOG_NAME[1], LOG_BUFFER);
519 1048 NAME_DESC [DSC$$_LENGTH] = .LOG_NAME [0];
520 1049 NAME_DESC [DSC$$_DTYPE] = 0;
521 1050 NAME_DESC [DSC$$_CLASS] = 0;
522 1051 NAME_DESC [DSC$$_POINTER] = LOG_BUFFER;
523 1052
524 1053 IF NOT .MOUNT_OPTIONS[OPT_LOG_NAME]
525 1054 THEN
526 1055 BEGIN
527 1056 IF .DEVICE_CHAR[DEV$$_SQD]
528 1057 THEN P = TAPE_PREFIX
529 1058 ELSE P = DISK_PREFIX;
530 1059
531 1060 RVT = .VCB[VCB$$_RVT];
532 1061 C = LABEL_LENGTH (RVT$$_STRUCNAME, RVT[RVT$$_STRUCNAME]);
533 1062 NAME_DESC [DSC$$_LENGTH] = .C + 5;
534 1063 NAME_DESC [DSC$$_POINTER] = LOG_BUFFER;
535 1064 CH$COPY (5, .P, .C, RVT[RVT$$_STRUCNAME], 0, .C+5, LOG_BUFFER);
536 1065 END;
537 1066
538 1067 ! Now create logical name. The physical device string is the equivalence
539 1068 string. If a tape mount, use the physical name of the first volume,
540 1069 otherwise use the physical name of the current volume.
541 1070
542 1071 INDEX = .DEVICE_INDEX;
543 1072 IF .BBLOCK [UCB[UCB$$_DEVCHAR], DEV$$_SQD]
544 1073 THEN
545 1074 INDEX = 0;
546 1075
```

```

547 1076 3      ! Store the location of the LNM block in the MTL
548 1077
549 1078
550 1079 ITEM_LIST [ 0 ] = ( LNMS LNMB ADDR*16 OR 4 );
551 1080 ITEM_LIST [ 1 ] = SMTL_ENTRY[MTLSL_LOGNAME];
552 1081 ITEM_LIST [ 2 ] = 0;
553 1082
554 1083 ! Store the location of the MTL in the LNM BLOCK.
555 1084 ! This causes the logical name deletion logic to clear the MTL's logical
556 1085 ! name pointer if the logical name is deleted, just as it does when a
557 1086 ! mailbox logical name is deleted.
558 1087
559 1088 ITEM_LIST [ 3 ] = ( LNMS INDEX*16 OR 4 );
560 1089 ITEM_LIST [ 4 ] = UPLIT ( LNMXSC_BACKPTR );
561 1090 ITEM_LIST [ 5 ] = 0;
562 1091 ITEM_LIST [ 6 ] = ( LNMS STRING*16 OR 4 );
563 1092 ITEM_LIST [ 7 ] = ITEM_LIST [ 1 ];
564 1093 ITEM_LIST [ 8 ] = 0;
565 1094
566 1095 ! Define equivalence string
567 1096
568 1097 ITEM_LIST [ 9 ] = ( LNMS INDEX*16 OR 4 );
569 1098 ITEM_LIST [ 10 ] = UPLIT ( 0 );
570 1099 ITEM_LIST [ 11 ] = 0;
571 1100
572 1101 ITEM_LIST [ 12 ] = ( LNMS ATTRIBUTES*16 OR 4 );
573 1102 ITEM_LIST [ 13 ] = ( IF .EXESGL_FLAGS[EXESV CONCEALED]
574 1103 THEN UPLIT ( LNMSM_TERMINAL OR LNMSM_CONCEALED )
575 1104 ELSE UPLIT ( LNMSM_TERMINAL ) );
576 1105 ITEM_LIST [ 14 ] = 0;
577 1106
578 1107 ! Use GETDVI to obtain the most universal device name for this physical
579 1108 ! device, FULLDEVNAM, and pass that to CRELNM as the equivalence name
580 1109 ! string.
581 1110 PHYSNAM_DESC [ DSCSW_LENGTH ] = .PHYS_NAME [ .INDEX*2 ] - 1;
582 1111 PHYSNAM_DESC [ DSCSA_POINTER ] = .PHYS_NAME [ .INDEX*2 + 1 ] + 1;
583 1112 PHYSNAM_DESC [ DSCSB_DTYPE ] = 0;
584 1113 PHYSNAM_DESC [ DSCSB_CLASS ] = 0;
585 1114
586 1115 DVI_ITEM [ 0 ] = ( DVIS FULLDEVNAM*16 OR ( PHYS_LENGTH + 2 ) );
587 1116 DVI_ITEM [ 1 ] = FULLNAM;
588 1117 DVI_ITEM [ 2 ] = ITEM_LIST [ 15 ];
589 1118 DVI_ITEM [ 3 ] = 0;
590 1119 ITEM_LIST [ 15 ] = 0;
591 1120
592 1121 P $GETDVIW (
593 1122     devnam = PHYSNAM_DESC,
594 1123     itmlst = DVI_ITEM );
595 1124
596 1125 IF .FULLNAM [ 0 ] eq 'XC'
597 1126 THEN BEGIN
598 1127     ITEM_LIST [ 15 ] = ( LNMS STRING*16 OR ( .ITEM_LIST [ 15 ] - 1 ) );
599 1128     ITEM_LIST [ 16 ] = FULLNAM + 1;
600 1129     END
601 1130 ELSE BEGIN
602 1131     ITEM_LIST [ 15 ] = ( LNMS STRING*16 OR .ITEM_LIST [ 15 ] );
603 1132     ITEM_LIST [ 16 ] = FULLNAM;
```



```
END;
ITEM_LIST [ 17 ] = 0;
! End item list
ITEM_LIST [ 18 ] = 0;
$CRELNM
    ( ACMODE = ACMODE,
      TABNAM = (IF .MOUNT_OPTIONS [ OPT_SYSTEM ]
                THEN SYSTEM_TABLE
                ELSE
                  IF .MOUNT_OPTIONS [ OPT_GROUP ]
                  THEN GROUP_TABLE
                  ELSE JOB_TABLE
                ),
      LOGNAM = NAME_DESC,
      ITMLST = ITEM_LIST );
SMTL_ENTRY[MTLSL_UCB] = .UCB;
SMTL_ENTRY[MTLSV_VOLSET] = 1;      ! identify as a volume set entry
LOCK_IODB ();                     ! lock the mount list
IF .MOUNT_OPTIONS[OPT_GROUP] OR .MOUNT_OPTIONS[OPT_SYSTEM]
THEN MOUNT_LIST = IOC$GQ_MOUNTLIST[1]
ELSE
    BEGIN
        JIB = .SCH$GL_CURPCB[PCBSL_JIB];
        MOUNT_LIST = JIB[JIB$SL_MTLBL]; ! get the tail of the mount list
    END;
INSQUE (.SMTL_ENTRY, ..MOUNT_LIST);
UNLOCK_IODB ();                   ! unlock the mount list
END;

IF (.SCH$GL_CURPCB [PCBSV_SECAUDIT]
OR .NSA$GR_ALARMVEC [NSA$V_EVT_MOUNT]
OR .NSA$GR_JOURNVEC [NSA$V_EVT_MOUNT])
THEN
    BEGIN
        LOCAL
            ARGLIST : BBLOCK[NSA$K_ARG2_LENGTH], ! security auditing argument list
            ORB : REF BBLOCK, ! address of the ORB
            TEMP_PROT; ! temporary protection word
        CH$FILL (0, NSA$K_ARG2_LENGTH, ARGLIST); ! zero argument list
        ORB = .UCB [UCBSL_ORB]; ! get ORB address

        ! Set up the security auditing argument list header

        ARGLIST [NSA$K_ARG_COUNT] = ( NSA$K_ARG2_LENGTH/4 ) - 4;
```

```
ARGLIST [NSASL_ARG_ID] = NSASK_RECID_VOL_MOU;      ! initialize length of argument list
                                                    ! less vol-set pkt and arg count
IF .SCH$GL_CURPCB [PCBSV_SECAUDIT]                ! initialize record id as mount
THEN                                                ! set up proper flags
    ARGLIST [NSASV_ARG_FLAG_MANDY] = 1;           ! mandatory auditing
IF .NSASGR_ALARMVEC [NSASV_EVT_MOUNT]
THEN
    ARGLIST [NSASV_ARG_FLAG_ALARM] = 1;           ! generate alarm for this record
IF .NSASGR_JOURNVEC [NSASV_EVT_MOUNT]
THEN
    ARGLIST [NSASV_ARG_FLAG_JOURN] = 1;           ! journal this record
ARGLIST [NSASB_ARG_PKTNUM] = 7;                    ! initialize number of items
                                                    ! less vol-set pkt

! Set up the security auditing argument list for mount

ARGLIST [NSASL_ARG2_UIC_TM] = NSASK_ARG_MECH_LONG^16 + NSASK_PKTTYP_UIC;
ARGLIST [NSASL_ARG2_UIC] = .ORB [ORBSL_OWNER];      ! set device owner UIC

ARGLIST [NSASL_ARG2_VOLPRO_TM] = NSASK_ARG_MECH_WORD^16 + NSASK_PKTTYP_VOLPRO;

! Get the volume protection
TEMP_PROT = 0;                                     ! clear temp location
IF .ORB [ORBSV_PROT_16]
THEN
    TEMP_PROT = .ORB [ORBSW_PROT]                  ! standard SOGW protection
ELSE
    BEGIN
        TEMP_PROT <0,4> = .(ORB [ORBSL_SYS_PROT])<0,4>;    ! vector protection
        TEMP_PROT <4,4> = .(ORB [ORBSL_OWN_PROT])<0,4>;    ! system
        TEMP_PROT <8,4> = .(ORB [ORBSL_GRP_PROT])<0,4>;    ! owner
        TEMP_PROT <12,4> = .(ORB [ORBSL_WOR_PROT])<0,4>;   ! group
    END;
    TEMP_PROT <16,4> = .(ORB [ORBSL_WOR_PROT])<0,4>;       ! world
ARGLIST [NSASL_ARG2_VOLPRO] = .TEMP_PROT;          ! set volume protection mask

ARGLIST [NSASL_ARG2_MOUFLG_TM] = NSASK_ARG_MECH_LONG^16 + NSASK_PKTTYP_MOUFLG;
ARGLIST [NSASL_ARG2_MOUFLG] = .MOUNT_FLAGS;        ! set mount flags

NSASARGLIST_IMGNAME (ARGLIST [NSASL_ARG2_IMGNAME_TM]); ! set image name

ARGLIST [NSASL_ARG2_DEVNAM_TM] = NSASK_ARG_MECH_DESCR^16 + NSASK_PKTTYP_DEVNAM;
IF .FULLNAM [0] EQL 'XC'
THEN
    ITEM_LIST [15] = .ITEM_LIST [15] + 1;          ! include the ' ' char
    ARGLIST [NSASL_ARG2_DEVNAM_SIZE] = .ITEM_LIST [15]; ! set size of full device name
    ARGLIST [NSASL_ARG2_DEVNAM_PTR] = FULLNAM;       ! set full device name buffer address

ARGLIST [NSASL_ARG2_LOGNAM_TM] = NSASK_ARG_MECH_DESCR^16 + NSASK_PKTTYP_LOGNAM;
ARGLIST [NSASL_ARG2_LOGNAM_SIZE] = .NAME_DESC [DESCW_LENGTH]; ! set size of logical name
ARGLIST [NSASL_ARG2_LOGNAM_PTR] = LOG_BUFFER;       ! set logical name buffer address
```

```
718 1247 3 ARGLIST [NSASL_ARG2_VOLNAM_TM] = NSASK_ARG_MECH_DESCR^16 + NSASK_PKTTYP_VOLNAM;
719 1248 ARGLIST [NSASL_ARG2_VOLNAM_SIZE] =
720 1249 LABEL_LENGTH (VCB$S_VOLNAME, VCB [VCB$T_VOLNAME]); ! set size of volume name
721 1250 ARGLIST [NSASL_ARG2_VOLNAM_PTR] = VCB [VCB$T_VOLNAME]; ! set volume name buffer address
722 1251
723 1252
724 1253
725 1254 If the volume is a member of a volume set, then
726 1255 a. increment argument count
727 1256 b. increment number of packets
728 1257 c. set up volume set descriptor
729 1258
730 1259 IF ( NOT .BBLOCK [UCB [UCB$S_DEVCHAR], DEV$V_FOR] )
731 1260 AND ( .VCB [VCB$W_RVN] NEQ 0 )
732 1261 THEN
733 1262 BEGIN
734 1263 ARGLIST [NSASL_ARG_COUNT] = .ARGLIST [NSASL_ARG_COUNT] + 3; ! count vol-set pkt
735 1264 ARGLIST [NSASB_ARG_PKTNUM] = .ARGLIST [NSASB_ARG_PKTNUM] + 1;
736 1265 ARGLIST [NSASL_ARG2_VOLSNAM_TM] = NSASK_ARG_MECH_DESCR^16 + NSASK_PKTTYP_VOLSNAM;
737 1266 RVT = .VCB [VCB$S_RVT];
738 1267 ARGLIST [NSASL_ARG2_VOLSNAM_SIZE] =
739 1268 LABEL_LENGTH (RVT$S_STRUCNAME, RVT [RVT$T_STRUCNAME]); ! set size of vol-set name
740 1269 ARGLIST [NSASL_ARG2_VOLSNAM_PTR] = RVT [RVT$T_STRUCNAME]; ! set vol-set name buffer address
741 1270 END;
742 1271
743 1272 CALLG (ARGLIST, NSASEVENT_AUDIT); ! call event audit routine
744 1273
745 1274 END; ! end of block defining ARGLIST
746 1275
747 1276 1 END; ! end of routine ENTER_LOGNAME
```

```
.PSECT SPLITS,NOWRT,NOEXE,2
24 45 50 41 54 00000 P.AAA: .ASCII \TAPES\
24 48 53 49 44 00005 P.AAB: .ASCII \DISK\$
0000A .BLKB 2
00 00 4D 45 54 53 59 53 24 4D 4E 4C 0000C P.AAD: .ASCII \LNMS$SYSTEM\<0><0>
010E000A 00018 P.AAC: .LONG 17694730
00000000 0001C .ADDRESS P.AAD
00 42 4F 4A 24 4D 4E 4C 00020 P.AAF: .ASCII \LNMS$JOB\<0>
010F0007 00028 P.AAE: .LONG 17694727
00000000 0002C .ADDRESS P.AAF
30 30 30 30 30 5F 50 55 4F 52 47 24 4D 4E 4C 00030 P.AAG: .ASCII \LNMS$GROUP_000000\
30 0003F
FFFFFFF81 00040 P.AAH: .LONG -127
00000000 00044 P.AAI: .LONG 0
00000300 00048 P.AAJ: .LONG 768
00000200 0004C P.AAK: .LONG 512
00 00 57 4F 21 5F 50 55 4F 52 47 24 4D 4E 4C 00050 P.AAM: .ASCII \LNMS$GROUP_!OW\<0><0><0>
00 0005F
010E000D 00060 P.AAL: .LONG 17694733
00000000 00064 .ADDRESS P.AAM
00 57 4F 21 00068 P.AAO: .ASCII \!OW\<0>
010E0003 0006C P.AAN: .LONG 17694723
00000000 00070 .ADDRESS P.AAO
```



```

FFFFF81 00074 P.AAP: .LONG -127
0000000 00078 P.AAQ: .LONG 0
00000300 0007C P.AAR: .LONG 768
00000200 00080 P.AAS: .LONG 512

```

```

TAPE_PREFIX=          P.AAA
DISK_PREFIX=          P.AAB
SYSTEM_TABLE=         P.AAC
JOB_TABLE=            P.AAE
.EXTRN MOUNT_FLAGS, CALLERS_ACMOD
.EXTRN DEVICE_CHAR, DEVICE_COUNT
.EXTRN LOG_NAME, DEVICE_INDEX
.EXTRN PHYS_NAME, SMTL_ENTRY
.EXTRN SCH$GL_CURPCB, IOC$GQ_MOUNTLST
.EXTRN EXE$GL_FLAGS, NSA$GR_ALARMVEC
.EXTRN NSA$GR_JOURNVEC
.EXTRN EXE$V_CONCEALED
.EXTRN LOCK_IODB, UNLOCK_IODB
.EXTRN NSA$EVENT_AUDIT
.EXTRN NSA$ARGLST_IMGNAM
.EXTRN EXE$CRE_GTABLE, SYSS$GETDVIW
.EXTRN SYSS$FAO, SYSS$CRELMN

```

.PSECT SCODES,NOWRT,2

				OFFC	00000	.ENTRY	ENTER LOGNAME, Save R2,R3,R4,R5,R6,R7,R8,- R9,R10,R11			
0084	CE	0000'	5E	FDEC	CE	9E	00002	MOVAB	-532(SP), SP	0734
		7C	CF		10	28	00007	MOVCS	#16, P.AAG, TABLE_NAME	0810
		0080	CE	0084	CE	9E	00013	MOVL	#16, GROUP_TABLE	
		74	AE	30303030	8F	D0	0001A	MOVAB	TABLE_NAME, GROUP_TABLE+4	
		78	AE	30303030	8F	D0	00022	MOVL	#808484432, ASC_GROUP	
		6C	AE		06	D0	0002A	MOVL	#808464432, ASC_GROUP+4	
		70	AE	74	AE	9E	0002E	MOVL	#6, ASC_GROUP_DESC	
FEF8	CD	0000G	DF	0000G	CF	28	00033	MOVAB	ASC_GROUP, ASC_GROUP_DESC+4	
		F8	AD	0000G	CF	3C	0003D	MOVCS	LOG_NAME, @LOG_NAME+4, LOG_BUFFER	0879
		FC	AD	FEF8	CD	9E	00043	MOVZWL	LOG_NAME, NAME_DESC	0880
			05	0000G	CF	E9	00049	MOVAB	LOG_BUFFER, NAME_DESC+4	0883
			50		01	D0	0004E	BLBC	MOUNT_OPTIONS+1, 1\$	0889
					03	11	00051	MOVL	#1, R0	
			50		02	D0	00053	BRB	2\$	
		0000G	CF		50	D1	00056	MOVL	#2, R0	
					05	15	00058	CMPL	R0, CALLERS_ACMOD	0891
			50	0000G	CF	D0	0005D	BLEQ	3\$	
		08	AE		50	D0	00062	MOVL	CALLERS_ACMOD, R0	
13		0000G	CF		05	E1	00066	MOVL	R0, ACMODE	0889
				0000G	CF	D5	0006C	BBC	#5, MOUNT_OPTIONS+3, 4\$	0893
					0D	12	00070	TSTL	SMIL_ENTRY	0894
			01	0000G	CF	D1	00072	BNEQ	4\$	
					58	13	00077	CMPL	DEVICE_COUNT, #1	0895
					05	E0	00079	BEQL	7\$	
52		0000G	CF		05	E1	0007F	BBS	#5, DEVICE_CHAR, 7\$	
07		0000G	CF		05	E1	0007F	BBC	#5, DEVICE_CHAR, 5\$	0898
			6E	0000'	CF	9E	00085	MOVAB	TAPE_PREFIX, P	0899
					05	11	0008A	BRB	6\$	
			6E	0000'	CF	9E	0008C	MOVAB	DISK_PREFIX, P	0900
			56	08	AC	D0	00091	MOVL	VCB, R6	0902

			14	A6	9F	00095	PUSHAB	20(R6)		
				0C	DD	00098	PUSHL	#12		
		0000V	CF	02	FB	0009A	CALLS	#2, LABEL_LENGTH		
	50	04	AE	50	DO	0009F	MOVL	R0, C	0903	
		04	AE	05	C1	000A3	ADDL3	#5, C, R0		
		F8	AD	50	B0	000AB	MOVW	R0, NAME_DESC		
		FC	AD	50	9E	000AC	MOVAB	LOG_BUFFER, NAME_DESC+4	0904	
			5A	50	DO	000B2	MOVL	R0, R10	0905	
			57	CD	9E	000B5	MOVAB	LOG_BUFFER, R7		
SA	00	00	BE	05	2C	000BA	MOVC5	#5, @P, #0, R10, (R7)		
				67		000C0				
				0E	18	000C1	BGEQ	7\$		
			57	05	C0	000C3	ADDL2	#5, R7		
			5A	05	C2	000C6	SUBL2	#5, R10		
SA	00	14	A6	04	AE	000C9	MOVC5	C, 20(R6), #0, R10, (R7)		
				67		000D0				
			56	CF	DO	000D1	7\$: MOVL	DEVICE_INDEX, INDEX	0913	
			57	AC	DO	000D6	MOVL	UCB, R7	0914	
	02	38	A7	05	E1	000DA	BBC	#5, 56(R7), 8\$		
				56	D4	000DF	CLRL	INDEX	0916	
00C4	CE	00C0	CE	00090004	8F	DO	000E1	8\$: MOVL	#589828, ITEM_LIST	0920
		0000G	CF		10	C1	000EA	ADDL3	#16, MTL_ENTRY, ITEM_LIST+4	0921
				00C8	CE	D4	000F2	CLRL	ITEM_LIST+8	0922
		00CC	CE	00010004	8F	DO	000F6	MOVL	#65540, ITEM_LIST+12	0929
		00D0	CE	0000	CF	9E	000FF	MOVAB	P.AAH, ITEM_LIST+16	0930
				00D4	CE	D4	00106	CLRL	ITEM_LIST+20	0931
		00D8	CE	00020004	8F	DO	0010A	MOVL	#131076, ITEM_LIST+24	0932
		00DC	CE	00C4	CE	9E	00113	MOVAB	ITEM_LIST+4, ITEM_LIST+28	0933
				00E0	CE	D4	0011A	CLRL	ITEM_LIST+32	0934
		00E4	CE	00010004	8F	DO	0011E	MOVL	#65540, ITEM_LIST+36	0938
		00E8	CE	0000	CF	9E	00127	MOVAB	P.AAI, ITEM_LIST+40	0939
				00EC	CE	D4	0012E	CLRL	ITEM_LIST+44	0940
		00F0	CE	00030004	8F	DO	00132	MOVL	#196812, ITEM_LIST+48	0942
07	00000000G	00	00	0000	00G	E1	0013B	BBC	S^EXESV CONCEALED, EXESGL_FLAGS, 9\$	0943
			50	0000	CF	9E	00143	MOVAB	P.AAJ, R0	0944
				05	11	00148	BRB	10\$		
			50	0000	CF	9E	0014A	9\$: MOVAB	P.AAK, R0	0945
		00F4	CE		50	DO	0014F	10\$: MOVL	R0, ITEM_LIST+52	0943
				00F8	CE	D4	00154	CLRL	ITEM_LIST+56	0946
50			56	0000G	CF	40	0015C	ASHL	#1, INDEX, R0	0952
				01	78	00158	PUSHAL	PHYS_NAME[R0]		
00B8	CE		9E	01	A3	00161	SUBW3	#1, 3(SP)+, PHYSNAM_DESC		
00BC	CE	0000G	CF	40	01	C1	00167	ADDL3	#1, PHYS_NAME+4[R0], PHYSNAM_DESC+4	0953
				00BA	CE	B4	00170	CLRW	PHYSNAM_DESC+2	0954
		0094	CE	00E80011	8F	DO	00174	MOVL	#15204389, DVI_ITEM	0957
		0098	CE	00A4	CE	9E	0017D	MOVAB	FULLNAM, DVI_ITEM+4	0958
		009C	CE	00FC	CE	9E	00184	MOVAB	ITEM_LIST+60, DVI_ITEM+8	0959
				00A0	CE	D4	0018B	CLRL	DVI_ITEM+12	0960
				00FC	CE	D4	0018F	CLRL	ITEM_LIST+60	0961
					7E	7C	00193	CLRQ	-(SP)	0965
					7E	7C	00195	CLRQ	-(SP)	
			00A4	CE	9F	00197	PUSHAB	DVI_ITEM		
			00CC	CE	9F	0019B	PUSHAB	PHYSNAM_DESC		
				7E	7C	0019F	CLRQ	-(SP)		
00000000G	00			08	FB	001A1	CALLS	#8, SYSSGETDVIW		
	5F	8F		00A4	CE	91	001AB	CMPB	FULLNAM, #95	0967
				19	12	001AE	BNEQ	11\$		

00FC	50	00FC	CE	00020000	01	C3	001B0	SUBL3	#1, ITEM_LIST+60, R0	0969
	CE	0100	CE	00A5	8F	C9	001B6	BISL3	#131072, -R0, ITEM_LIST+60	
					CE	9E	001C0	MOVAB	FULLNAM+1, ITEM_LIST+64	0970
		00FE	CE		0C	11	001C7	BRB	12\$	0967
		0100	CE	00A4	02	88	001C9	BISB2	#2, ITEM_LIST+60	0973
				0104	CE	9E	001CE	MOVAB	FULLNAM, ITEM_LIST+64	0974
				0000G	CE	7C	001D5	CLRQ	ITEM_LIST+68	0976
					CF	95	001D9	TSTB	MOUNT_OPTIONS	0988
					46	18	001DD	BGEQ	13\$	
		50	00000000G		00	D0	001DF	MOVL	SCH\$GL_CURPCB, R0	0995
		7E	00BE		CO	3C	001E6	MOVZWL	190(R0), -(SP)	
			0080		CE	9F	001EB	PUSHAB	GROUP_TABLE	
			0084		CE	9F	001EF	PUSHAB	GROUP_TABLE	
			0000'		CF	9F	001F3	PUSHAB	P.AAL	
		00000000G	00		04	FB	001F7	CALLS	#4, SYSS\$FAO	
			50	00000000G	00	D0	001FE	MOVL	SCH\$GL_CURPCB, R0	1000
			7E	00BE	CO	3C	00205	MOVZWL	190(R0), -(SP)	
				70	AE	9F	0020A	PUSHAB	ASC_GROUP_DESC	
				74	AE	9F	0020D	PUSHAB	ASC_GROUP_DESC	
				0000'	CF	9F	00210	PUSHAB	P.AAN	
		00000000G	00		04	FB	00214	CALLS	#4, SYSS\$FAO	
			5B	74	AE	9E	0021B	MOVAB	ASC_GROUP, R11	1002
				00000000G	00	16	0021F	JSB	EXE\$CRE_GTABLE	
				00C0	CE	9F	00225	PUSHAB	ITEM_LIST	1017
				0C	AE	9F	00229	PUSHAB	ACMODE	
				F8	AD	9F	0022C	PUSHAB	NAME_DESC	
		07	0000G		CF	E9	0022F	BLBC	MOUNT_OPTIONS+1, 14\$	
		50	0000'		CF	9E	00234	MOVAB	SYSTEM_TABLE, R0	
					12	11	00239	BRB	16\$	
				0000G	CF	95	0023B	TSTB	MOUNT_OPTIONS	14\$:
					07	18	0023F	BGEQ	15\$	
		50	0088		CE	9E	00241	MOVAB	GROUP_TABLE, R0	
					05	11	00246	BRB	16\$	
		50	0000'		CF	9E	00248	MOVAB	JOB_TABLE, R0	15\$:
					50	DD	0024D	PUSHL	R0	16\$:
					7E	D4	0024F	CLRL	-(SP)	
		00000000G	00		05	FB	00251	CALLS	#5, SYSS\$CRELNM	
			50	0000G	CF	D0	00258	MOVL	MTL_ENTRY, R0	1021
		0C	A0		57	D0	0025D	MOVL	R7, -12(R0)	
		0000G	CF		00	FB	00261	CALLS	#0, LOCK_IODB	1022
				0000G	CF	95	00266	TSTB	MOUNT_OPTIONS	1024
					05	19	0026A	BLSS	17\$	
		09	0000G		CF	E9	0026C	BLBC	MOUNT_OPTIONS+1, 18\$	
		5B	00000000G		00	9E	00271	MOVAB	IOCS\$G_MOUNTLST+4, MOUNT_LIST	1025
					10	11	00278	BRB	19\$	
		50	00000000G		00	D0	0027A	MOVL	SCH\$GL_CURPCB, R0	1028
		5B	0080		CO	D0	00281	MOVL	128(R0), JIB	
		5B	04		AB	9E	00286	MOVAB	4(R11), MOUNT_LIST	1029
		00	0000G		DF	0E	0028A	INSQUE	@MTL_ENTRY, @0(MOUNT_LIST)	1031
		0000G	CF		00	FB	00290	CALLS	#0, UNLOCK_IODB	1033
				0000G	CF	D5	00295	TSTL	SMTL_ENTRY	1038
					03	12	00299	BNEQ	20\$	
					01ED	31	0029B	BRW	35\$	
FEF8	CD	0000G	DF	0000G	CF	28	0029E	MOVC3	LOG_NAME, @LOG_NAME+4, LOG_BUFFER	1047
		F8	AD	0000G	CF	3C	002AB	MOVZWL	LOG_NAME, NAME_DESC	1048
		FC	AD	FEF8	CD	9E	002AE	MOVAB	LOG_BUFFER, NAME_DESC+4	1051
	56	0000G	CF		05	E0	002B4	BBS	#5, MOUNT_OPTIONS+3, 23\$	1053

07	0000G	CF	05	E1	002BA	BBC	#5, DEVICE CHAR, 21\$	1056	
		6E	0000'	CF	9E 002C0	MOVAB	TAPE_PREFIX, P	1057	
				05	11 002C5	BRB	22\$		
		6E	0000'	CF	9E 002C7	MOVAB	DISK_PREFIX, P	1058	
		50	08	AC	D0 002CC	MOVL	VCB, R0	1060	
		59	20	A0	D0 002D0	MOVL	32(R0), RVT		
			0C	A9	9F 002D4	PUSHAB	12(RVT)	1061	
				0C	DD 002D7	PUSHL	#12		
	0000V	CF	02	FB	002D9	CALLS	#2, LABEL_LENGTH		
	04	AE	50	D0	002DE	MOVL	R0, C		
50	04	AE	05	C1	002E2	ADDL3	#5, C, R0	1062	
	F8	AD	50	B0	002E7	MOVW	RJ, NAME_DESC		
	FC	AD	50	9E	002EB	MOVAB	LOG_BUFFER, NAME_DESC+4	1063	
		5A	50	D0	002F1	MOVL	R0, R10	1064	
		57	50	9E	002F4	MOVAB	LOG_BUFFER, R7		
SA	00	BE	05	2C	002F9	MOVCS	#5, AP, #0, R10, (R7)		
			67		002FF				
		57	0E	18	00300	BGEQ	23\$		
		5A	05	C0	00302	ADDL2	#5, R7		
SA	00	A9	05	C2	00305	SUBL2	#5, R10		
	0C		AE	2C	00308	MOVCS	C, 12(RVT), #0, R10, (R7)		
			67		0030F				
		56	CF	D0	00310	23\$:	MOVL	DEVICE INDEX, INDEX	1071
		52	04	AC	D0 00315	MOVL	UCB, R2	1072	
02	38	A2	05	E1	00319	BBC	#5, 56(R2), 24\$		
			56	D4	0031E	CLRL	INDEX	1074	
00C4	CE	00C0	CE	8F	D0 00320	24\$:	MOVL	#589828, ITEM_LIST	1078
		0000G	CF	10	C1 00329	ADDL3	#16, SMPL ENTRY, ITEM_LIST+4	1079	
				CE	D4 00331	CLRL	ITEM_LIST+8	1080	
		00CC	CE	8F	D0 00335	MOVL	#65540, ITEM_LIST+12	1087	
		00D0	CE	CF	9E 0033E	MOVAB	P.AAP, ITEM_LIST+16	1088	
				CE	D4 00345	CLRL	ITEM_LIST+20	1089	
		00D8	CE	8F	D0 00349	MOVL	#131076, ITEM_LIST+24	1090	
		00DC	CE	CE	9E 00352	MOVAB	ITEM_LIST+4, ITEM_LIST+28	1091	
				CE	D4 00359	CLRL	ITEM_LIST+32	1092	
		00E4	CE	8F	D0 0035D	MOVL	#65540, ITEM_LIST+36	1096	
		00E8	CE	CF	9E 00366	MOVAB	P.AAQ, ITEM_LIST+40	1097	
				CE	D4 0036D	CLRL	ITEM_LIST+44	1098	
		00F0	CE	8F	D0 00371	MOVL	#196812, ITEM_LIST+48	1100	
07	00000000G	00	00G	E1	0037A	BBC	S*EXESV CONCEALED, EXESGL_FLAGS, 25\$	1101	
		50	0000'	CF	9E 00382	MOVAB	P.AAR, R0	1102	
				05	11 00387	BRB	26\$		
		50	0000'	CF	9E 00389	25\$:	MOVAB	P.AAS, R0	1103
		00F4	CE	50	D0 0038E	26\$:	MOVL	R0, ITEM_LIST+52	1101
				CE	D4 00393	CLRL	ITEM_LIST+56	1104	
		56	00F8	02	C4 00397	MULL2	#2, R6	1110	
			0000GCF	46	DF 0039A	PUSHAL	PHYS NAME[R6]		
00B8	CE	9E	01	A3	0039F	SUBW3	#1, 3(SP)+, PHYSNAM_DESC		
00BC	CE	0000GCF	46	01	C1 003A5	ADDL3	#1, PHYS NAME+4[R6], PHYSNAM_DESC+4	1111	
				CE	B4 003AE	CLRW	PHYSNAM_DESC+2	1112	
		0094	CE	8F	D0 003B2	MOVL	#15204389, DVI_ITEM	1115	
		0098	CE	9E	003BB	MOVAB	FULLNAM, DVI_ITEM+4	1116	
		009C	CE	9E	003C2	MOVAB	ITEM_LIST+60, DVI_ITEM+8	1117	
				CE	D4 003C9	CLRL	DVI_ITEM+12	1118	
				CE	D4 003CD	CLRL	ITEM_LIST+60	1119	
				7E	7C 003D1	CLRQ	-(SPT)	1123	
				7E	7C 003D3	CLRQ	-(SP)		

			00A4	CE	9F	003D5	PUSHAB	DVI_ITEM		
			00CC	CE	9F	003D9	PUSHAB	PHYSNAM_DESC		
				7E	7C	003DD	CLRQ	-(SP)		
		00000000G	00	08	FB	003DF	CALLS	#8, SYSS\$GETDVIW		
		5F	8F	00A4	CE	91	CMPB	FULLNAM, #95	1125	
				19	12	003EC	BNEQ	27\$		
		00FC	CE	01	C3	003EE	SUBL3	#1, ITEM_LIST+60, R0	1127	
	50	00FC	50	00020000	8F	C9	BISL3	#131072, -R0, ITEM_LIST+60		
	CE	0100	CE	00A5	CE	9E	MOVAB	FULLNAM+1, ITEM_LIST+64	1128	
					0C	11	BRB	28\$	1125	
		00FE	CE		02	88	BISB2	#2, ITEM_LIST+60	1131	
		0100	CE	00A4	CE	9E	MOVAB	FULLNAM, -ITEM_LIST+64	1132	
				0104	CE	7C	CLRQ	ITEM_LIST+68	1134	
				00C0	CE	9F	PUSHAB	ITEM_LIST	1150	
				0C	AE	9F	PUSHAB	ACMODE		
				F8	AD	9F	PUSHAB	NAME_DESC		
			07	0000G	CF	E9	BLBC	MOUNT_OPTIONS+1, 29\$		
			50	0000'	CF	9E	MOVAB	SYSTEM_TABLE, R0		
					12	11	BRB	31\$		
				0000G	CF	95	TSTB	MOUNT_OPTIONS		
					07	18	BGEQ	30\$		
			50	0088	CE	9E	MOVAB	GROUP_TABLE, R0		
					05	11	BRB	31\$		
			50	0000'	CF	9E	MOVAB	JOB_TABLE, R0		
					50	DD	PUSHL	R0		
					7E	D4	CLRL	-(SP)		
		00000000G	00	0000G	05	FB	CALLS	#5, SYSS\$CRELNM		
			50		CF	D0	MOVL	SMTL_ENTRY, R0	1152	
		0C	A0		52	D0	MOVL	R2, T2(R0)		
		0B	A0		01	88	BISB2	#1, 11(R0)	1153	
		0000G	CF		00	FB	CALLS	#0, LOCK_IODB	1155	
				0000G	CF	95	TSTB	MOUNT_OPTIONS	1157	
					05	19	BLSS	32\$		
			09	0000G	CF	E9	BLBC	MOUNT_OPTIONS+1, 33\$		
			58	00000000G	00	9E	MOVAB	IOCS\$G_MOUNTLST+4, MOUNT_LIST	1158	
					10	11	BRB	34\$		
			50	00000000G	00	D0	MOVL	SCH\$GL_CURPCB, R0	1161	
			58	0080	C0	D0	MOVL	128(R0), JIB		
			58	04	AB	9E	MOVAB	4(R11), MOUNT_LIST	1162	
		00	B8	0000G	DF	0E	INSQUE	@SMTL_ENTRY, 30(MOUNT_LIST)	1164	
		0000G	CF		00	FB	CALLS	#0, UNLOCK_IODB	1166	
			56	00000000G	00	D0	MOVL	SCH\$GL_CURPCB, R6	1171	
					03	E0	BBS	#3, 39TR6), 36\$		
	11	27	A6		01	E0	BBS	#1, NSAS\$GR_ALARMVEC, 36\$	1172	
	09	00000000G	00		01	E0	BBS	#1, NSAS\$GR_JOURNVEC, 36\$	1173	
	01	00000000G	00			04	RET			
					00	2C	MOVC5	#0, (SP), #0, #96, ARGLIST	1182	
0060	8F		00	6E	AE	004A8				
				0C	AC	004AF				
				53	DO	004B1	MOVL	UCB, R3	1183	
				50	A3	DO	MOVL	28(R3), ORB		
				0C	14	DO	MOVL	#20, ARGLIST	1189	
		0C	AE	00010008	8F	DO	MOVL	#65544, ARGLIST+4	1192	
		10	A6		03	E1	BBC	#3, 39(R6), 37\$	1194	
		27	AE		04	88	BISB2	#4, ARGLIST+8	1196	
		14	AE		01	E1	BBC	#1, NSAS\$GR_ALARMVEC, 38\$	1197	
	04	00000000G	00		01	88	BISB2	#1, ARGLIST+8	1199	
			AE		01	E1	BBC	#1, NSAS\$GR_JOURNVEC, 39\$	1200	
	04	00000000G	00							

14	AE		02	88	004E2	BISB2	#2, ARGLIST+8	1202	
15	AE		07	90	004E6	39\$:	MOVW	#7, ARGLIST+9	1204
18	AE	0002000C	8F	D0	004EA		MOVL	#131084, ARGLIST+12	1211
1C	AE		60	D0	004F2		MOVL	(ORB), ARGLIST+16	1212
20	AE	0001000D	8F	D0	004F6		MOVL	#65549, ARGLIST+20	1214
			51	D4	004FE		CLRL	TEMP_PROT	1218
	06	0B	A0	E9	00500		BLBC	11(ORB), 40\$	1219
	51	18	A0	3C	00504		MOVZWL	24(ORB), TEMP_PROT	1221
			18	11	00508		BRB	41\$	
51		00	A0	F0	0050A	40\$:	INSV	24(ORB), #0, #4, TEMP_PROT	1224
51	04	1C	A0	F0	00510		INSV	28(ORB), #4, #4, TEMP_PROT	1225
51	04	20	A0	F0	00516		INSV	32(ORB), #8, #4, TEMP_PROT	1226
51	04	24	A0	F0	0051C		INSV	36(ORB), #12, #4, TEMP_PROT	1227
			51	D0	00522	41\$:	MOVL	TEMP_PROT, ARGLIST+24	1229
24	AE		8F	D0	00526		MOVL	#131086, ARGLIST+28	1231
28	AE	0002000E	CF	D0	0052E		MOVL	MOUNT_FLAGS, ARGLIST+32	1232
2C	AE	0000G	AE	9E	00534		MOVAB	ARGLIST+36, R2	1234
	52	30	00	16	00538		JSB	NSA\$ARGLIST_IMGNAM	
		00000000G	8F	D0	0053E		MOVL	#262149, ARGLIST+48	1236
3C	AE	00040005	CE	91	00546		CMPB	FULLNAM, #95	1237
5F	8F	00A4	04	12	0054C		BNEQ	42\$	
		00FC	CE	D6	0054E		INCL	ITEM_LIST+60	1239
40	AE	00FC	CE	D0	00552	42\$:	MOVL	ITEM_LIST+60, ARGLIST+52	1240
44	AE	00A4	CE	9E	00558		MOVAB	FULLNAM, ARGLIST+56	1241
48	AE	00040006	8F	D0	0055E		MOVL	#262150, ARGLIST+60	1243
4C	AE	F8	AD	3C	00566		MOVZWL	NAME_DESC, ARGLIST+64	1244
50	AE	FEF8	CD	9E	0056B		MOVAB	LOG_BUFFER, ARGLIST+68	1245
54	AE	00040007	8F	D0	00571		MOVL	#262151, ARGLIST+72	1247
	52	08	AC	D0	00579		MOVL	VCB, R2	1249
		14	A2	9F	0057D		PUSHAB	20(R2)	
			0C	DD	00580		PUSHL	#12	
0000V	CF		02	FB	00582		CALLS	#2, LABEL_LENGTH	
58	AE		50	D0	00587		MOVL	R0, ARGLIST+76	
5C	AE	14	A2	9E	0058B		MOVAB	20(R2), ARGLIST+80	1250
	2B	3B	A3	E8	00590		BLBS	59(R3), 43\$	1259
		0E	A2	B5	00594		TSTW	14(R2)	1260
			26	13	00597		BEQL	43\$	
0C	AE		03	C0	00599		ADDL2	#3, ARGLIST	1263
		15	AE	96	0059D		INCB	ARGLIST+9	1264
60	AE	00040008	8F	D0	005A0		MOVL	#262152, ARGLIST+84	1265
	59	20	A2	D0	005A8		MOVL	32(R2), RVT	1266
		0C	A9	9F	005AC		PUSHAB	12(RVT)	1268
			0C	DD	005AF		PUSHL	#12	
0000V	CF		02	FB	005B1		CALLS	#2, LABEL_LENGTH	
64	AE		50	D0	005B6		MOVL	R0, ARGLIST+88	
68	AE	0C	A9	9E	005BA		MOVAB	12(RVT), ARGLIST+92	1269
00000000G	00	0C	AE	FA	005BF	43\$:	CALLG	ARGLIST, NSA\$EVENT_AUDIT	1272
			04	005C7			RET		1276

; Routine Size: 1480 bytes, Routine Base: \$CODE\$ + 0015


```

749 1277 1 ROUTINE LABEL_LENGTH (STR_LENGTH, STR_TEXT) =
750 1278 1
751 1279 1 ++
752 1280 1
753 1281 1 FUNCTIONAL DESCRIPTION:
754 1282 1
755 1283 1 This routine will return the length of a given string.
756 1284 1 Trailing blanks at the end of the string are not counted
757 1285 1 as part of the string.
758 1286 1
759 1287 1 NOTE THAT NO VOLUME MAY HAVE A VOLUME LABEL WITH TRAILING BLANKS.
760 1288 1
761 1289 1
762 1290 1 CALLING SEQUENCE:
763 1291 1 LABEL_LENGTH (ARG1, ARG2)
764 1292 1
765 1293 1 INPUT PARAMETERS:
766 1294 1 ARG1: Input string length
767 1295 1 ARG2: Input string address
768 1296 1
769 1297 1 IMPLICIT INPUTS:
770 1298 1 NONE
771 1299 1
772 1300 1 OUTPUT PARAMETERS:
773 1301 1 NONE
774 1302 1
775 1303 1 IMPLICIT OUTPUTS:
776 1304 1 NONE
777 1305 1
778 1306 1 ROUTINE VALUE:
779 1307 1 NONE
780 1308 1
781 1309 1 SIDE EFFECTS:
782 1310 1 NONE
783 1311 1
784 1312 1 --
785 1313 1
786 1314 2 BEGIN
787 1315 2
788 1316 2 MAP
789 1317 2 STR_TEXT : REF VECTOR [,BYTE]; ! Input string
790 1318 2
791 1319 2 LOCAL
792 1320 2 PTR : LONG; ! Pointer to current char.
793 1321 2
794 1322 2 ! Starting at the end of the string, decrement the string length
795 1323 2 ! until a nonblank character is found, or the beginning of the string
796 1324 2 ! is encountered.
797 1325 2
798 1326 2
799 1327 2 PTR = .STR_LENGTH;
800 1328 2 WHILE (.PTR GTR 0) AND (.STR_TEXT [.PTR-1] EQL %ASCII' ') DO
801 1329 2 PTR = .PTR - 1;
802 1330 2
803 1331 3 RETURN (.PTR)
804 1332 1 END;
```

			0000	00000	LABEL_LENGTH:			
	51	04	AC	D0 00002	1\$:	WORD	Save nothing	: 1277
			OF	15 00006		MOVL	STR_LENGTH, PTR	: 1327
50	51	08	AC	C1 00008		BLEQ	2\$: 1328
	20	FF	A0	91 0000D		ADDL3	STR TEXT, PTR, R0	
			04	12 00011		CMPB	-1(R0), #32	
			S1	D7 00013		BNEQ	2\$	
			EF	11 00015		DECL	PTR	: 1329
	50		S1	D0 00017	2\$:	BRB	1\$: 1331
			04	0001A		MOVL	PTR, R0	: 1332
						RET		

; Routine Size: 27 bytes, Routine Base: \$CODE\$ + 05D0

```

: 805      1333 1
: 806      1334 1 END
: 807      1335 0 ELUDOM

```

PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	1528	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)
\$SPLITS	132	NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	94	0	1000	00:01.9

COMMAND QUALIFIERS

```

:
: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LISS:MAKLOG/OBJ=OBJ$:MAKLOG MSRC$:MAKLOG/UPDATE=(ENH$:MAKLOG)
: Size:      1528 code + 132 data bytes
: Run Time:   00:33.7

```

MAKLOG
V04-000

J 11
16-Sep-1984 01:16:19

VAX-11 Bliss-32 V4.0-742

Page 24

: Elapsed Time: 01:07.0
: Lines/CPU Min: 2376
: Lexemes/CPU-Min: 26826
: Memory Used: 345 pages
: Compilation Complete

0244

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